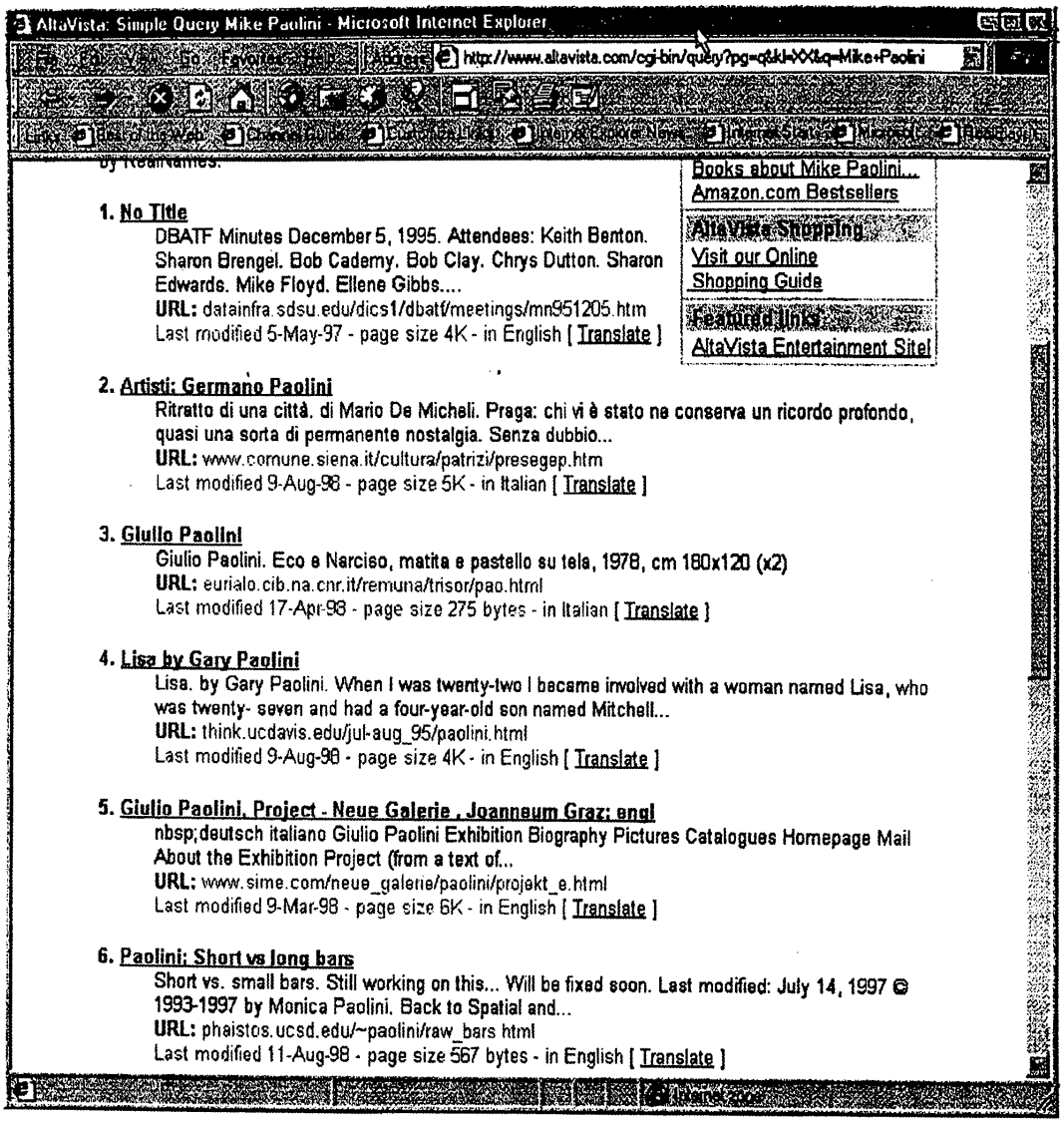
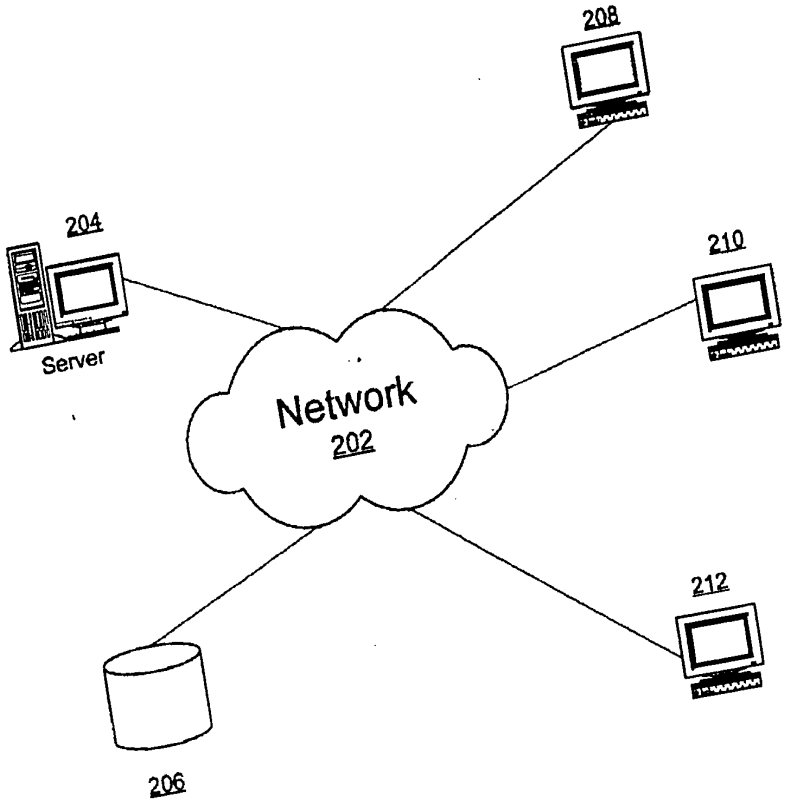


Figure 1

(Prior Art)



200
Network

Figure 2

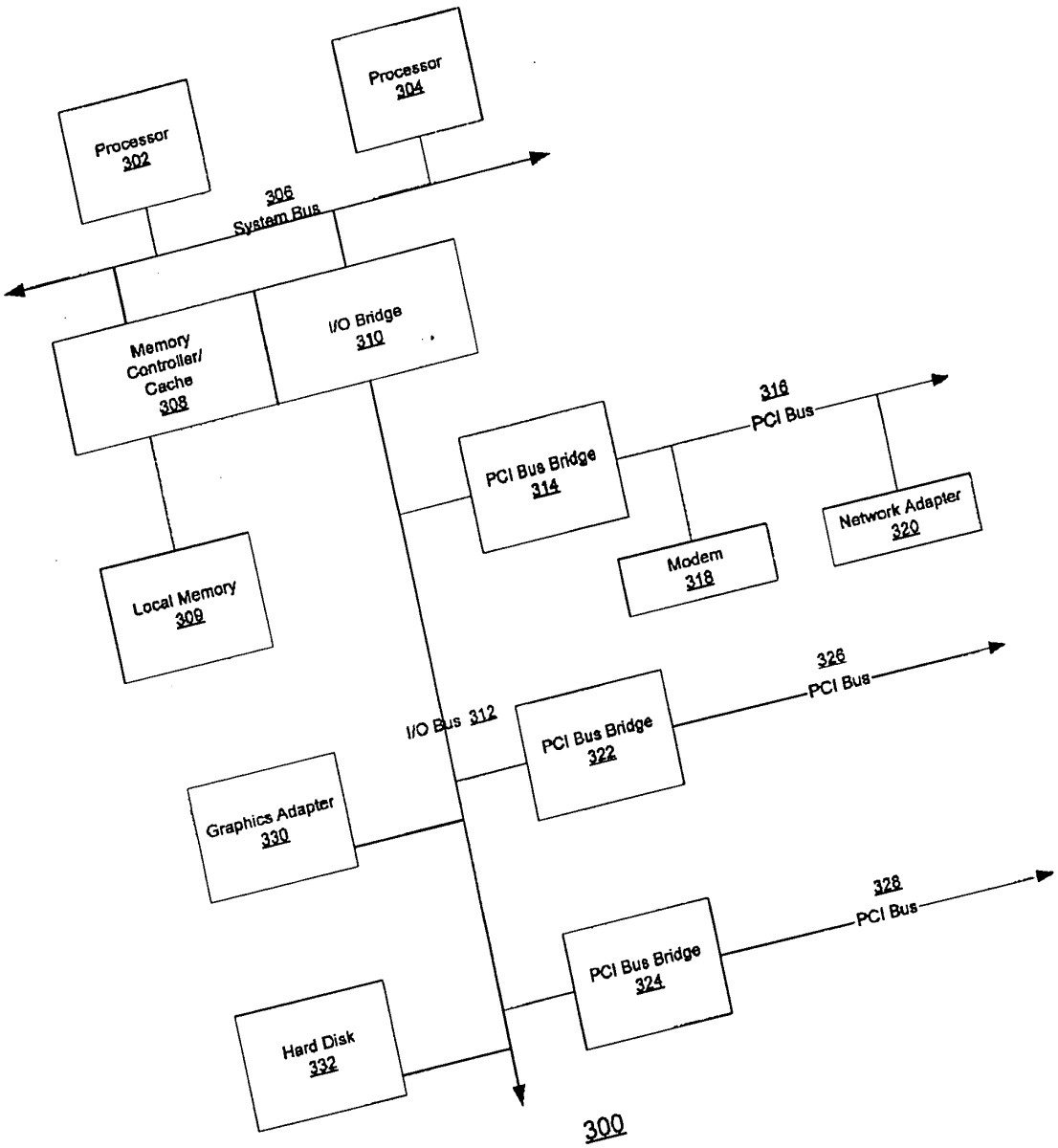


Figure 3

AT9-99-458

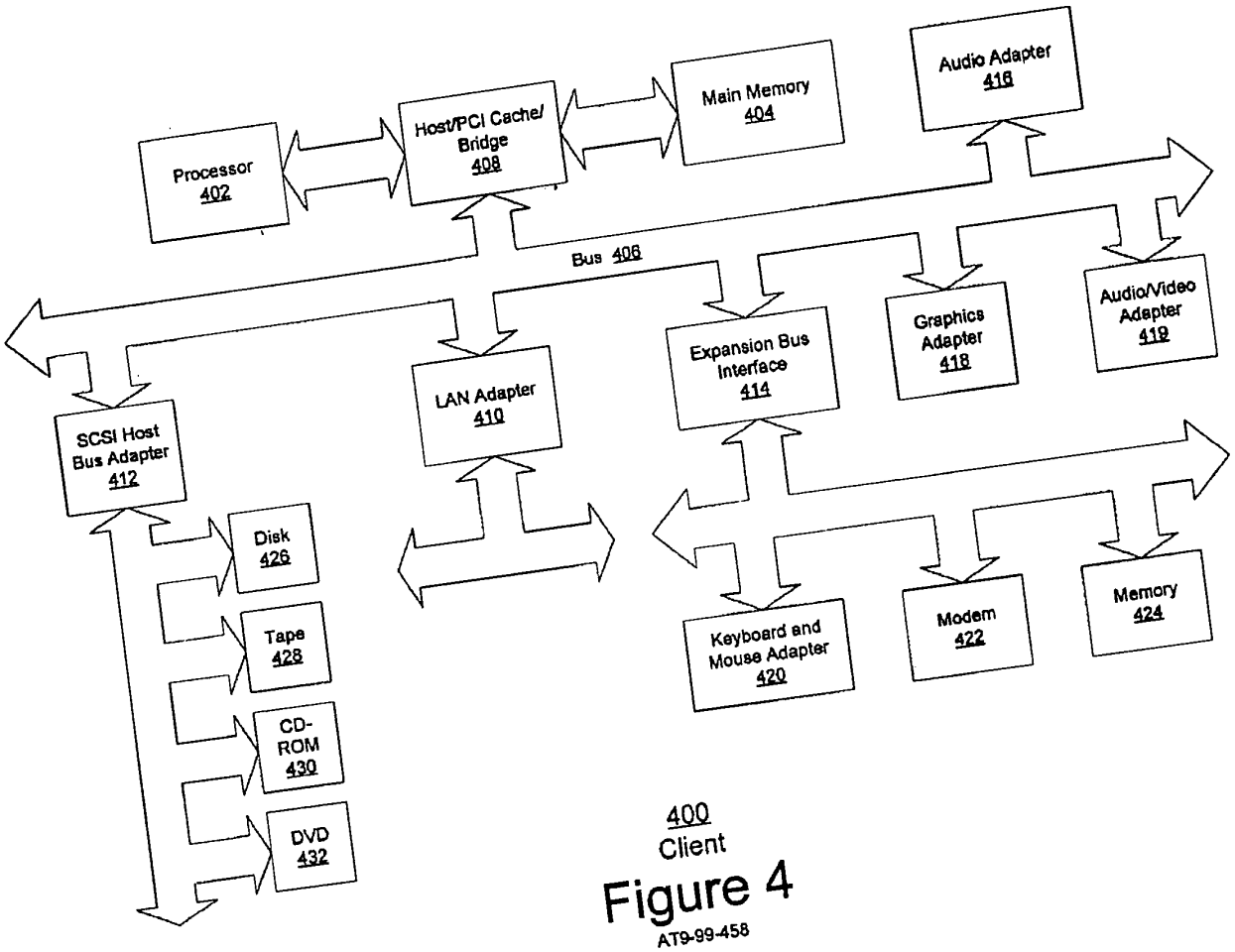


Figure 4

AT9-99-458

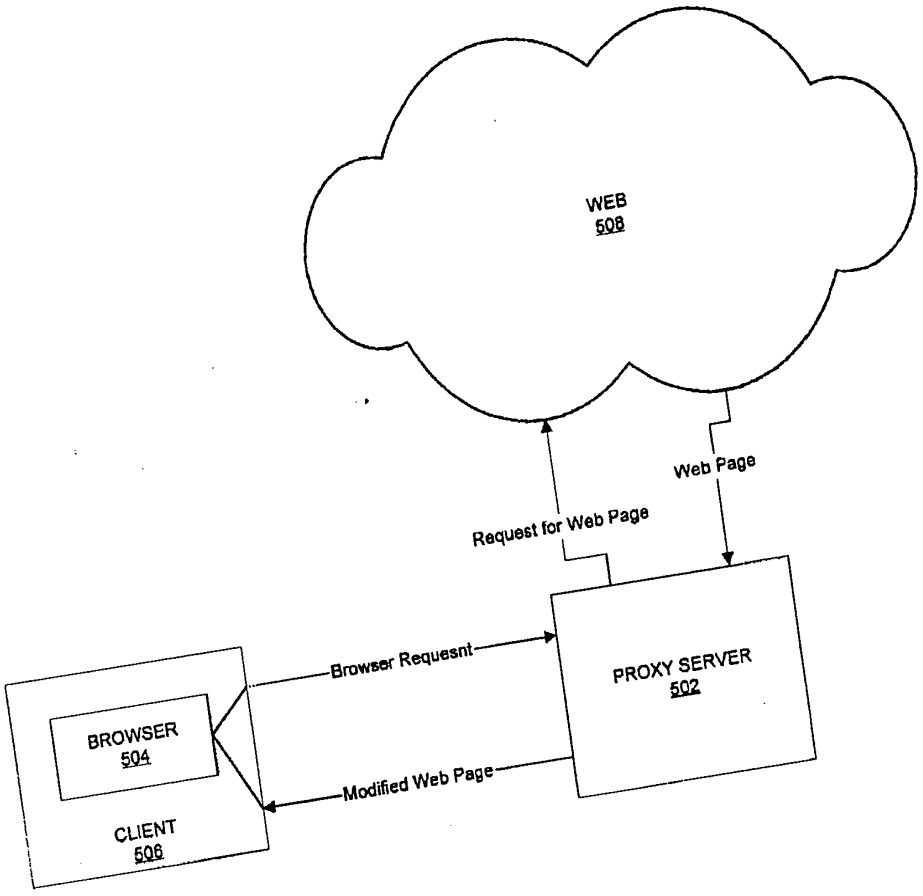

WEB
508
Web Page
Request for Web Page
PROXY SERVER
502
Browser Requesnt
BROWSER
504
Modified Web Page
CLIENT
506

Figure 5

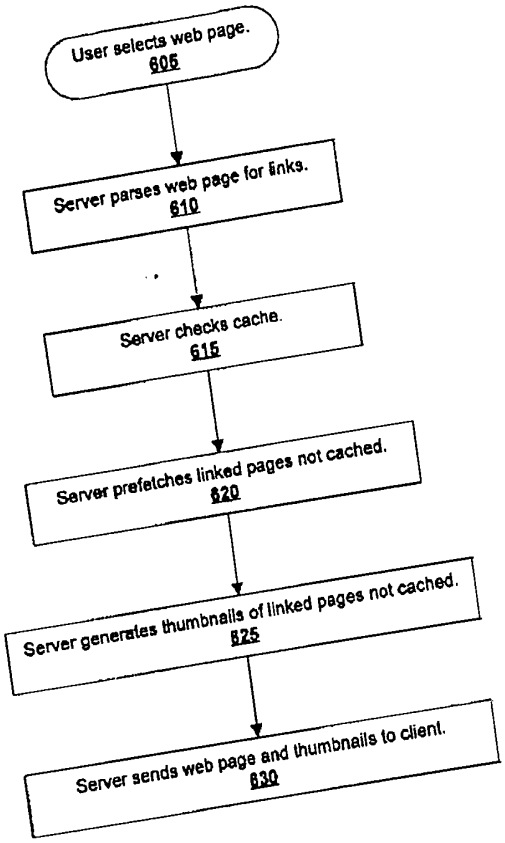

User selects web page.
605
Server parses web page for links.
610
Server checks cache.
615
Server prefetches linked pages not cached.
620
Server generates thumbnails of linked pages not cached.
625
Server sends web page and thumbnails to client.
630

Figure 6

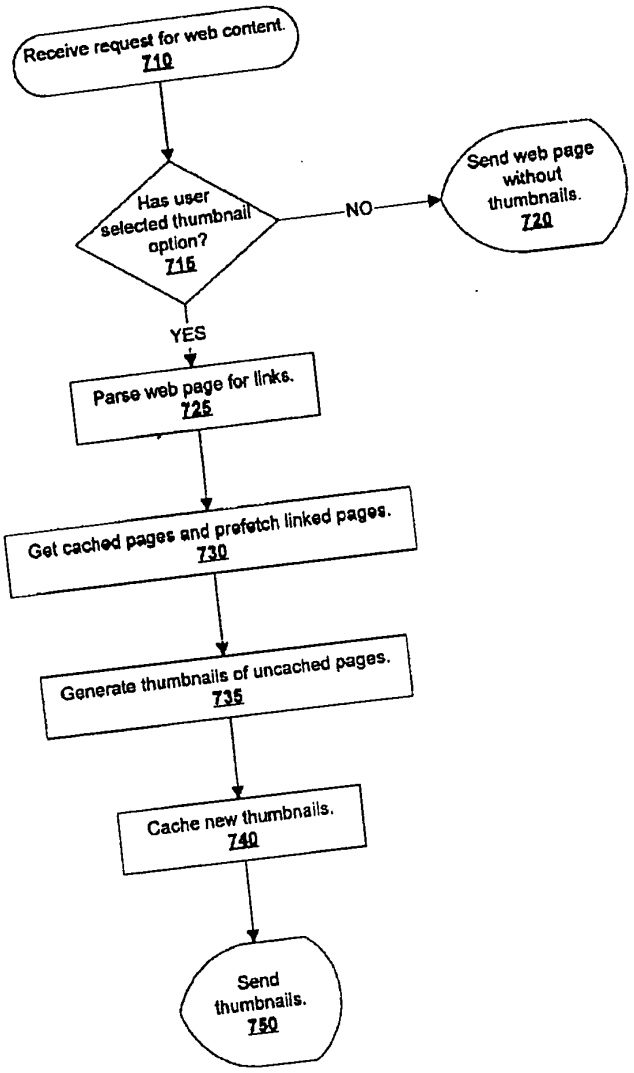

Receive request for web content.
710
Has user selected thumbnail option?
715
NO
Send web page without thumbnails.
720
YES
Parse web page for links.
725
Get cached pages and prefetch linked pages.
730
Generate thumbnails of uncached pages.
735
Cache new thumbnails.
740
Send thumbnails.
750

Figure 7

800

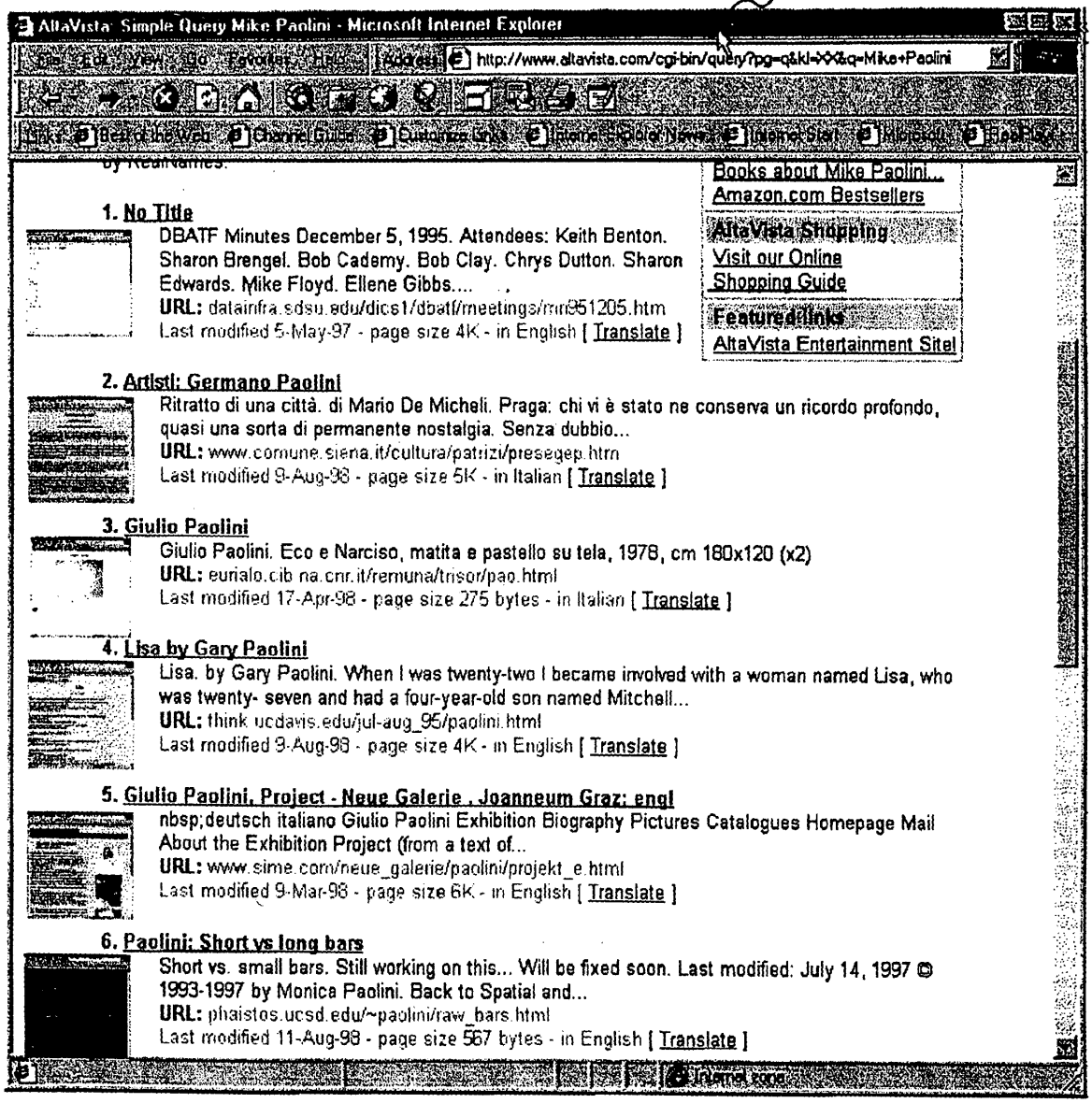

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Figure 8

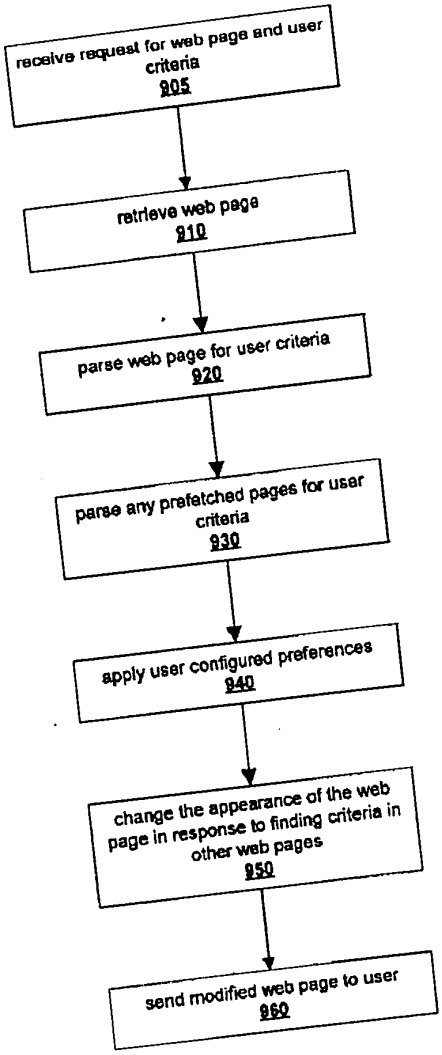
receive request for web page and user criteria
905
retrieve web page
910
parse web page for user criteria
920
parse any prefetched pages for user criteria
930
apply user configured preferences
940
change the appearance of the web page in response to finding criteria in other web pages
950
send modified web page to user
960

Figure 9

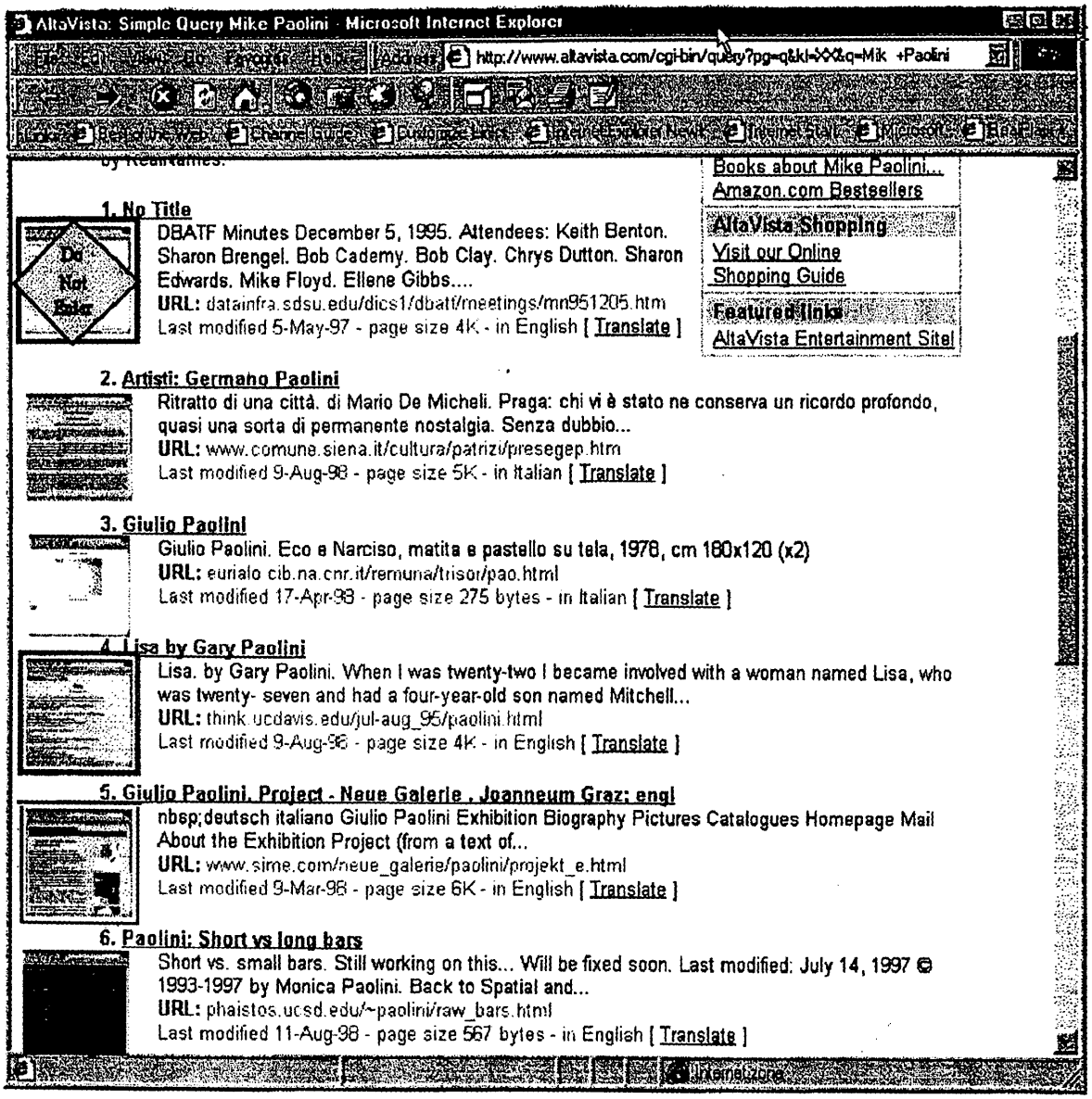
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Figure 10

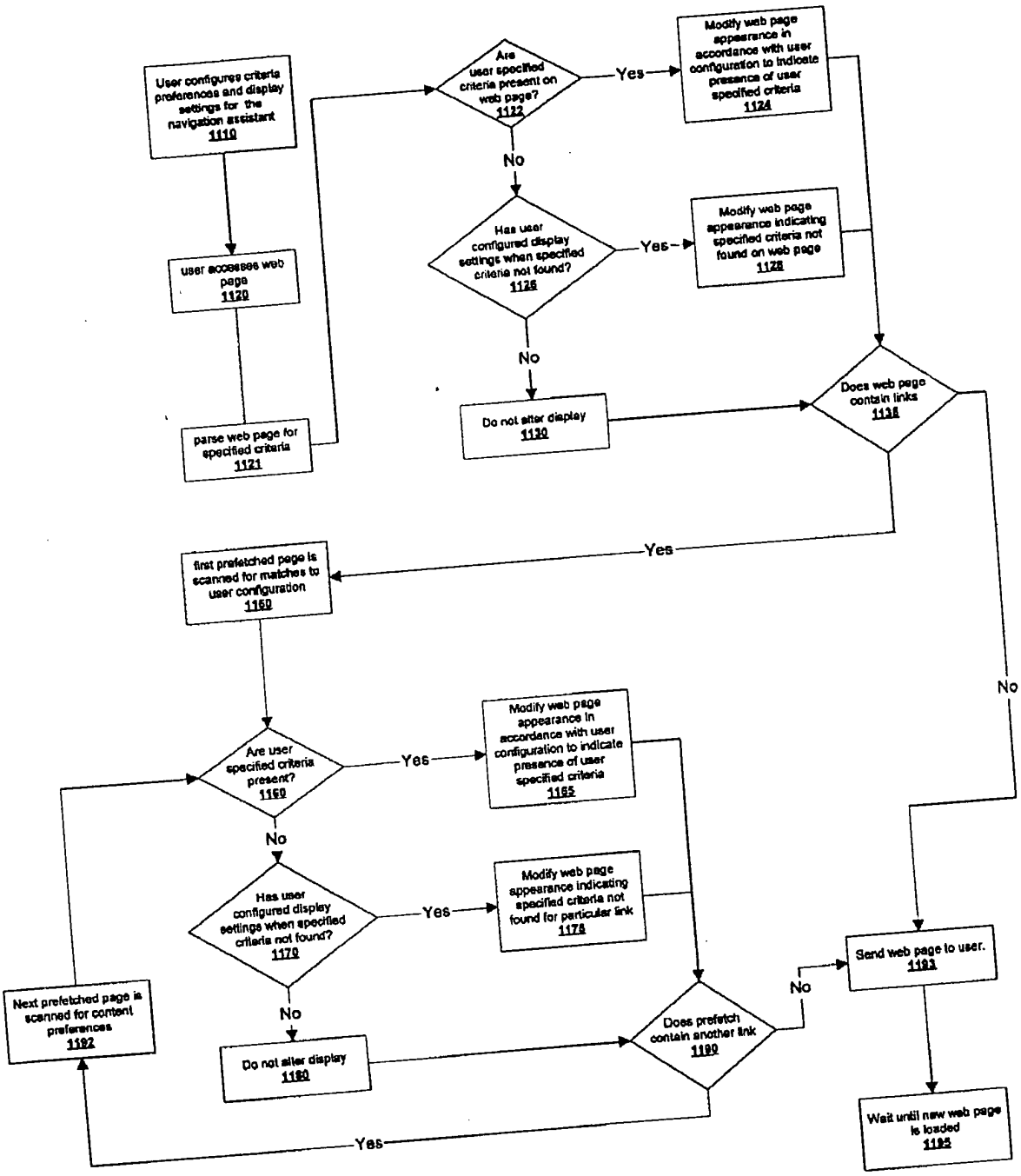
User configures criteria preferences and display settings for the navigation assistant 1110
user accesses web page 1120
parse web page for specified criteria 1121
Are user specified criteria present on web page? 1122
Yes
Modify web page appearance in accordance with user configuration to indicate presence of user specified criteria 1124
No
Has user configured display settings when specified criteria not found? 1126
Yes
Modify web page appearance indicating specified criteria not found on web page 1128
No
Do not alter display 1130
Does web page contain links 1138
Yes
No
first prefetched page is scanned for matches to user configuration 1160
Are user specified criteria present? 1160
Yes
Modify web page appearance in accordance with user configuration to indicate presence of user specified criteria 1165
No
Has user configured display settings when specified criteria not found? 1170
Yes
Modify web page appearance indicating specified criteria not found for particular link 1178
No
Do not alter display 1180
Next prefetched page is scanned for content preferences 1192
Does prefetch contain another link 1190
No
Yes
Send web page to user. 1193
Wait until new web page is loaded 1195

Figure 11

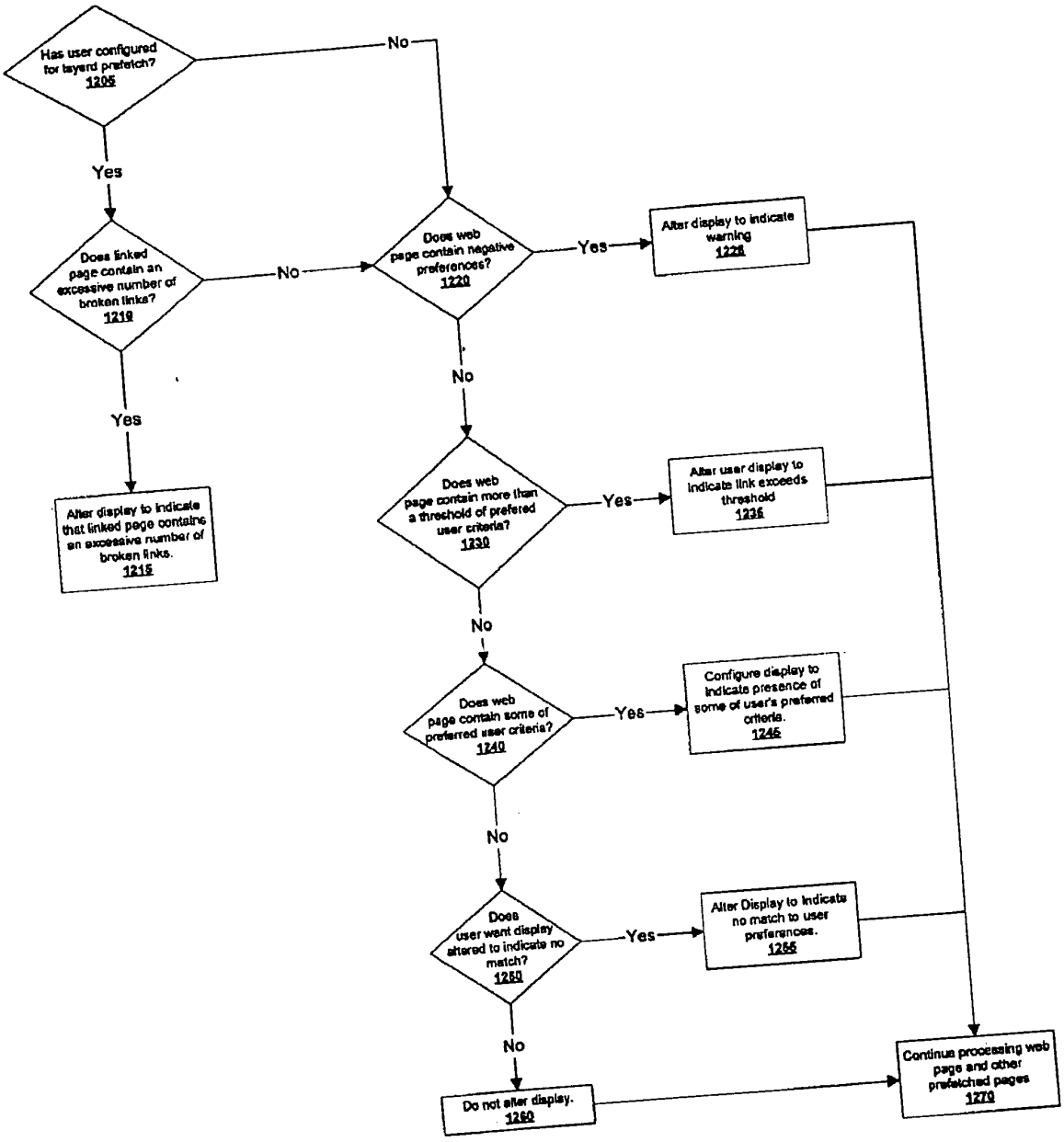
Has user configured for layard prefetch? 1205
No
Yes
Does linked page contain an excessive number of broken links? 1210
No
Yes
After display to indicate that linked page contains an excessive number of broken links. 1215
Does web page contain negative preferences? 1220
Yes
After display to indicate warning 1225
No
Does web page contain more than a threshold of prefered user criteria? 1230
Yes
After user display to indicate link exceeds threshold 1235
No
Does web page contain some of preferred user criteria? 1240
Yes
Configure display to indicate presence of some of user's preferred criteria. 1245
No
Does user want display altered to indicate no match? 1250
Yes
After Display to indicate no match to user preferences. 1255
No
Do not alter display. 1260
Continue processing web page and other prefetched pages 1270

Figure 12

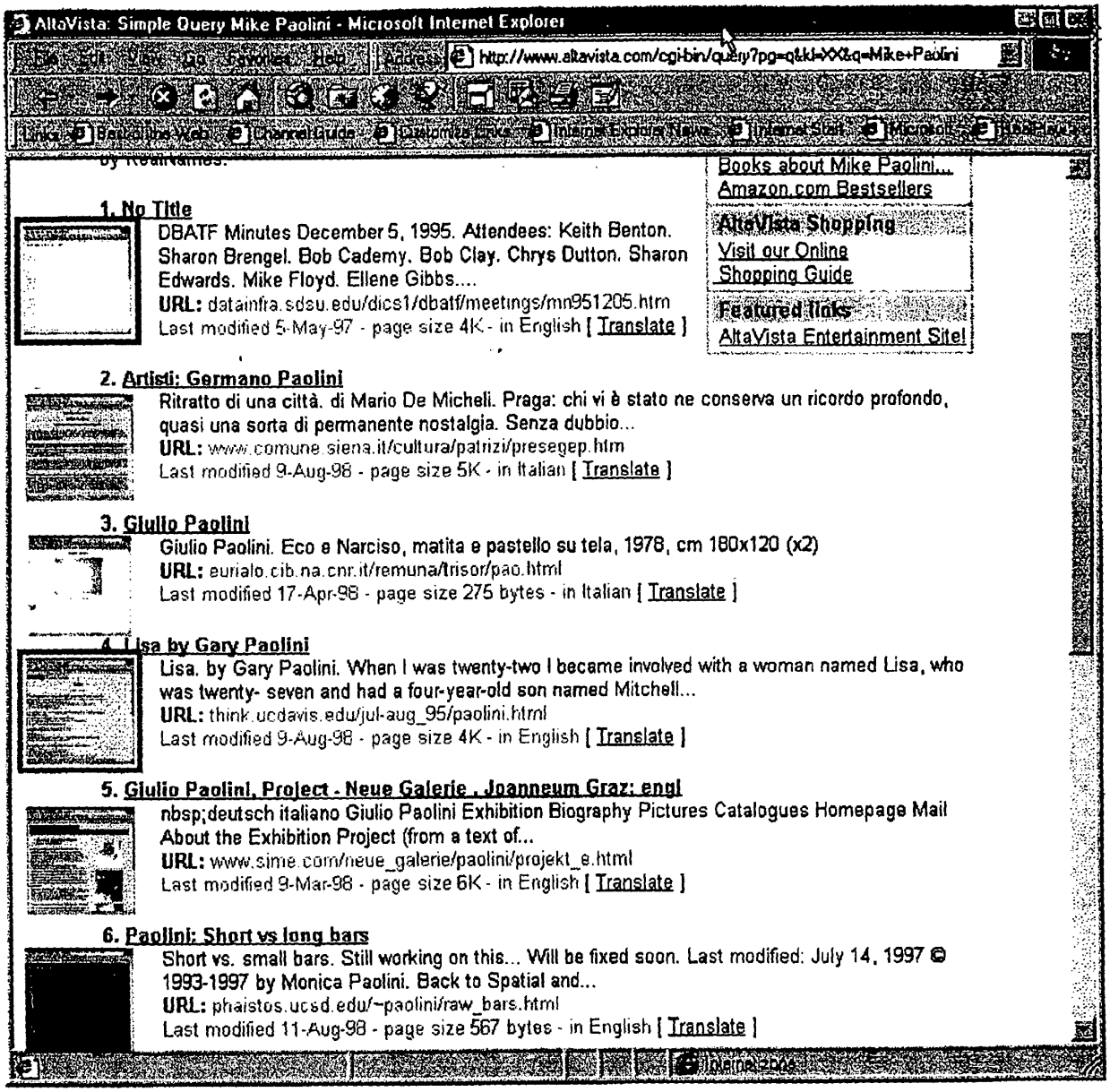
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Figure 13

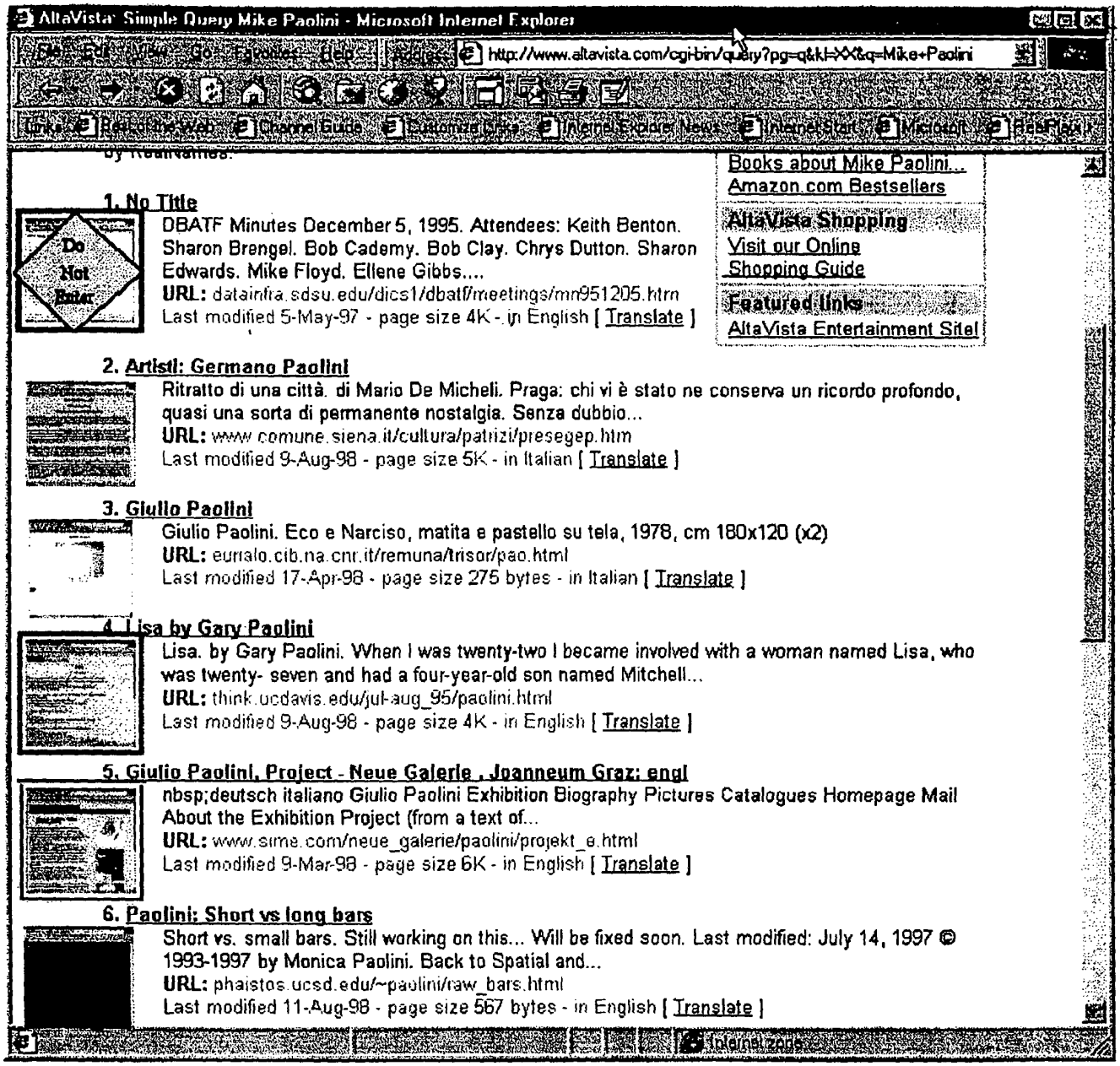
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Figure 14